

KROTOVA, Valentina Artem'yevna; GATAL'SKIY, M.A., redaktor; RAGINA, G.A.,
redaktor; YERMAKOV, E.A., redaktor; GENNAD'YEVA, I.M..
tekhnicheskiy redaktor.

[Hydrogeology] Gidrogeologiia. Leningrad, Gos.nauchno-tekhn.
izd-vo neftianoi i gorno-toplivnoi lit-ry, Leningradskoe otd-
nie, 1956. 266 p. (Leningrad. Vsesoiusnyi neftianoi nauchno-
issledovatel'skii geologorazvedochnyi institut. Trudy, no. 94).
(MLRA 9:11)

(Volga Valley--Water, Underground)
(Ural Mountain region--Water, Underground)
(Petroleum geology)

KROTOVA, V.A.

15-57-5-6877

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,
p 165 (USSR)

AUTHOR: Krotova, V. A.

TITLE: The Chlorine-Bromine Coefficient in Subsurface Waters
(O khlor-bromnom koeffitsiyente podzemnykh vod)

PERIODICAL: Tr. Vses. neft. n.-i. geologorazved. in-ta, 1956, Nr 95,
pp 254-265.

ABSTRACT: The author first notes the view of A. P. Vinogradov
(Dokl. AN SSSR, 1944, 44, Nr 2) on determining, by
using the chlorine-bromine coefficient, the relation
between composition of subsurface waters and marine
or soluble deposits of NaCl. He studied the waters in
the Devonian, Carboniferous, and Permian Volga-Ural oil
provinces. A graph was prepared showing the relation
of the chlorine-bromine coefficient to depth. The graph
shows a decrease in the chlorine-bromine coefficient
downward in the section, within the following limits:
for the Upper Permian the ratio is greater than 1200 to

Card 1/3

15-57-5-5877

The Chlorine-Bromine Coefficient in Subsurface Waters (Cont.)

1300, for the Lower Permian it ranges from 400 to 1000, for the Middle and Upper Carboniferous from 200 to 500, for the Lower Carboniferous from 200 to 400, and for the Devonian it is less than 200. Deviations from this regularity were also noted. The Devonian and Carboniferous waters in the region of Teplovka and Irinovka are very similar, both in chlorine-bromine coefficient and in Na/Cl ratio. The composition of the oil in these horizons is also very uniform. These data point to rising movements in the water of this region. A similar picture may be observed in other anticlinal uplifts. A decrease in the chlorine-bromine coefficient is also noted in the Middle Carboniferous deposits to the east, and is explained by the migration of bromine-rich waters from the fore-Ural downwarp. Low values of the chlorine-bromine coefficient in the region of Zhukovka and Chusovyye Gorodki are associated with rising waters from deeper horizons. The following conclusions are made: 1) the value of the chlorine-bromine coefficient for waters of platform structures is a function of depth and the degree of uncovering of the structure; 2) the chlorine-bromine coefficient reflects quantitatively the volume of water; 3) the value of the chlorine-bromine coefficient does not

Card 2/3

15-57-5-5877

The Chlorine-Bromine Coefficient in Subsurface Waters (Cont.)

depend on the lithology of the water-bearing rocks; 4) really, the chlorine-bromine coefficient decreases toward deep basins (of the fore-Ural and Caspian type); 5) waters with Cl/Br < 300 are not exceptional, but are everywhere present at depths greater than 1000 m to 1500 m, and waters with Cl/Br over 300 range down to the depth of 1000 m to 1500 m; 6) waters in the oil fields of the Devonian Volga-Ural oil province have a value of Cl/Br most commonly around 150 to 180; 7) low values of Cl/Br invariably correspond to low values for Na/Cl, i.e., the accumulation of calcium and bromine chlorides in the waters involves interrelated processes; 8) the construction of a graph showing relation of Cl/Br to depth aids in establishing a general regularity and explains anomalies that facilitate the search for petroleum.

V. S. K.

Editor's note: The conclusions of the author are made only from the study of one hydrogeologic region and are therefore debatable.
Card 3/3

Krotova, V.A.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 18969.

Author : V.A. Krotova.

Inst : All-Union Scientific Research Geological Prospecting
Institute for Mineral Oil.

Title : Some General Regularities of Chemism of Underground
Waters in Palaeozoic Deposits in Volga-Ural Oil Bear-
ing Province.

Orig Pub : Tr. Vses. Neft. N.-I. Geologo-Razved. In-ta, 1956,
No 95, 343-353.

Abstract : The following appear as general regularities of the
chemism of underground waters in Volga-Ural province,
as well as for the whole Russian platform; 1) mineral-
ization (M) rise depending on the hypsometric and
stratigraphic depth (M within the limits from a few
mg per equ to 900 mg per equ and more); 2) the pre-
sence of a hydrochemical zonality connected with the
depth: from the HCO_3^- - Na^+ and SO_4^{2-} - Na^+ type to the
 CaCl_2 type via the transitory MgCl_2 type independently

Card 1/2

-79-

KROTOVA, Valentina Artem'yevna; ARKHANGEL'SKIY, Boris Nilovich, red.; DAYEV,
G.A., vedushchiy red.; GENNAD'YEV, I.M., tekhn. red.

[Hydrogeological factors in the formation, preservation, and de-
struction of oil pools; materials on the Volga and Ural regions]
Rol' gidrogeologicheskikh faktorov v obrazovanii, sokhranenii i raz-
rushenii neftianykh zaleshei. Leningrad, Gos. nauchno-tekhn. izd-vo
neft. i gorno-toplivnoi lit-ry, 1957. 127 p. (Leningrad, Vsesoiusnyi
neftianoi nauchno-issledovatel'skiy geologo-rasvedochnyi institut,
Trudy, no.103). (MIRA 11:1)

(Volga Valley--Petroleum geology)
(Ural Mountain region--Petroleum geology)
(Water, Underground)

RECORDED, V. A.

"Iodine-Bromide and Calcium Chloride Brines of the Volga-Ural [Second
Baku] Oil-Bearing Regions." p. 435

Geologicheskiy sbornik, 3, (Collection of Articles in Geology, Vol. 3),
Leningrad Gostoptekhizdat, 1958, 471pp. (Trudy, vyp 126, Vsesoyuznyy neftyanoy
nauchno-issledovatel'skiy geologorazvedochnyy institut)

Krofau, V A

TABLE I FROM SXTG/1000
Vestnay sotsiay nauchno-issledovatel'nyy geologorezervnoy
labilat

Gosudarstvennyy zhurnal, no. 5 (Collected "Reports on Geology and
Geophysics"), No. 51 (January), Gosudarstv. Gosizdat, 1954. (Soviet
1954) 1700 copies printed.

21-1 "Sovet. Nauchno-issledovatel'nyy Geologorezervnyy Inst.",
Perf. Ns. 1, N. Gennad'yev.

NOTE: The book is intended for the technical and scientific
personnel of Institutes and Tsent. (Central Scientific Research
Institutes) of the Petroleum Industry and all those interested
in the geology and geochemistry of petroleum.

CONTENTS: The book is the fifth issue of the Geological Survey (Collected "Reports on Geology and Geophysics") and contains articles compiled by VNIIGeo staff members (All-Union Geological Research Institute for Geological Survey) on various aspects of geo-chemistry. The work is divided into two parts, the first of which consists of 12 articles dealing with the development of theoretical problems in petroleum geochemistry. The second part reviews problems connected with the study of organic and mineral crudes. In Part I, A. P. Dobrovolsky points the low temperature origin of petroleum and refutes the popular idea concerning high temperature origin. The joint work of V. P. Dobrovolsky, V. P. Lashkevich, and A. I. Buzanov directs attention to the uniform phenomena in the composition of crude oil and results from spontaneous changes in their composition during geological periods and which occur in full accordance with the basic laws of nature. The article supplement to Part I is devoted to the problem of the origin of petroleum hydrocarbons. It is shown that the hydrocarbons are derived mainly from plants (Geochemistry of ancient plants). V. M. Kurnikov's article on the distribution of aromatic hydrocarbons in the composition of crude oil is also of interest. The extensive research conducted at the Institute of Geochemistry and Mineralogy (Ural Branch, Academy of Sciences) on the origin of crude oil is contained in the article of V. G. Kurnikov. The article by V. A. Dobrovolsky and A. I. Buzanov report on the particular characteristics of the aromatic hydrocarbon structure which may prove useful for future research and exploration work in the search for new oil fields. I. K. Kostyuk describes a new method of forming the total number of alkyl phenols, which is applied in various chromatographic studies. References

1000/1000
Collected papers (part.)

Pereslav, A. I. Siberian Crudes
Description of the geological conditions, and the distribution of
petroleum in Siberia. Includes: Oil, Gas, and Petroleum
Institute's Distribution of Siberian Crudes from the Volga-Ural
Region. 50
Yatsenko, S. P. The Distribution of Dispersed Residues in
Siberian Boria
Globusaya, Ye. A. Geothermal waters in the Ganges-Cfr
Crude Oil
Gorshkov, A. S. On the Formation of Residues and Vegetable Substance
On the Formation of Residues in Vegetable Substance
Decomposed by Abnormal Microflora 105
Briche, V. A. Problems of the Formation of Chlorite-shale rocks 112
Kazulin, G. I. Tectonic Characteristics of Neogene-
Tertiary Deposits Laid Down on the Basis of Their
Saline Content 112
Card 4/7

PLATE I BOOK EXHIBITION
3151. Akademiya nauk Ukrainskoy SSR. Institut geologii polzonykh iskopayey-
emykh. Problemy migratsii nerfii i formirovaniya nerfnykh i gazonov sko-
plenii; materialy Lvovskoy diskusii o nefti i gazu neftyanikh i gazonovikh pro-
blemakh; materialy i vystavka po rezul'tatam diskusii o nefti i gazu neftyanikh i gazonovikh
problemakh. L'vov, 1957. [Oil Migration and Formation of Oil and Gas Accumulations;
Materials of the Discussion Held in L'vov, May 8-12, 1957] Moscow, 1959.
Gosizdatkhimizdat, 1959. 422 p., 1,100 copies printed.

Editor: V. B. Portir'yev, Academician of the Ukrainian SSR Academy of
Sciences, and I. O. Brod, Professor; Exec. Ed.: P. M. Yerhov, Professor,
T. S. Sloboda, A. S. Polozai, Editorial Board: I.O. Brod, Professor,
B. M. Ladezhenskiy, and V.B. Portir'yev, Academician of the Ukrainian
Academy of Sciences.
PURPOSE: This collection of articles is intended for a wide range of
geologists and research workers interested in oil problems.
CONTENTS: Articles contained in this book deal with the problems of
migration and accumulation of oil and gas. These problems were
discussed in May 1957 at Lvov State University by Dr. T. Franko at
a meeting organized jointly by the Institute of Geology and Miner-
al Resources, Academy of Sciences of the USSR, the Department of
Geology and Oil Exploration of the Lvov Polytechnic Institute,
and the Lvov Geological Society. Theories on the origin of pe-
troleum deposits and the conditions surrounding their occurrence
are treated. There are 327 references: 232 Soviet, 86 English,
5 French, and 4 German.

TABLE OF CONTENTS:

Introduction
Opening Address by the President of the Organization Committee
of the Conference V.B. Portir'yev

REPORTS

Andreev, P.P. [Voronezh, Leningrad] Migration Processes in the Subapillary Channels of Mobile Products Formed from the Dispersed Organic Matter in Sediments	311
Yanenko, E.P. [Voronezh, Leningrad] The Wave of Oil Transformation in Deposits	318
Bogomolov, A.I. [Voronezh, Leningrad] The Problem of Oil Composition Changes Depending on the Age of the Enclosing Rocks	322
Sadobenko, O.A. [Laboratory of Igly] The Initial Stage of Oil Migration	326
Orlitsberg, I.Y. [Institut geologii polzonykh iskopayeych, L'vov] Fossils in Genetic Relationship Between the Organic Kerogen and Natural Oil	329
Polyakova, R.A. [Institut nerfi, Moscow] Problems of Oil Deposit Formation in the Devonian of the Russian Platform	333
Protopov, V.A. [Voronezh, Leningrad] Hydrogeological Factors in the Formation and Destruction of the Urals-Potashnoe Oil Deposits	350
Karabell, Z.G. [Lvov, Donbasnoe neftekhimikat] Conditions of Oil Occurrence in the Fiume-Pechorskaya Province	354

KROTOVA, V.A.

Factors determining the formation of calcium chloride waters in
Siberia. Geol. nefti 2 no.6:33-39 Je '58. (MIRA 11:7)

1. Vsesoyusnyy reftyany nauchno-issledovatel'skiy geologo-rasvedochnyy
institut.
(Siberia--Water, Underground) (Lime, Chloride of)

KROTOVA, V.A.

Some problems with regard to the formation of calcium chloride
waters. Trudy VNIGRI no.123:103-111 '58. (MIRA 11:12)
(Water, Underground) (Calcium chloride)

KROTOVA, V.A., kand.geol.-mineral.nauk

Hydrogeological factors determining the formation and disintegration
of oil fields in the Volga Valley portion of the Ural Mountains.
Trudy VNIGNI no.22:240-252 '59. (MIRA 13:11)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy institut.
(Volga-Ural region--Oil fields)
(Water, Underground)

KROTOVA, Valentina Artem'yevna; LICHKOV, B.L., nauchnyy red.; DESHALYT,
M.G., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Hydrogeological factors related to oil potential] Gidroleologicheskie kriterii neftenosnosti. Leningrad Gos.nauchn.-tekhn. izd-vo neft.i gorno-topl.lit-ry. Leningr. otd.-nie, 1960. 161 p. (Leningrad. Vsesoiusnyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.147). (MIRA 13:7)

(Petroleum geology)

TORGOVANOVA, V.B.; DUBROVA, N.V.; KRUGLIKOV, N.M.; LOZOVSKIY, M.R.; POMARNATSKIY,
M.A.; KROTOVA, V.A.; nauchnyy red.; DOLMATOV, P.S., vedushchiy red.;
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Paleozoic and Mesozoic waters and gases in Western Siberia]
Vody i gazy paleozoiskikh i mesozoiskikh otlozhenii Zapadnoi
Sibiri. Leningrad, Gos.nauchn.-tekhn.izd-vo neft. i gorno-topl.
lit-ry leningr. otd-nie, 1960. 459p. (Leningrad, Vsesoiuznyi
neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut.
Trudy, no. 159) (MIRA 14:3)

(Siberia, Western--Water, Underground)
(Siberia, Western--Gas, Natural)

KROTOVA, V.A.

Time factor in the formation of the chemical composition of underground waters. Trudy VNIGRI no.155:299-307 '60. (MIRA 14:1)
(Water, Underground—Composition)
(Geochemistry)

YAKUTSENI, Vera Prokof'yevna; KROTOVA, V.A., nauchnyy red.; RAGINA, G.M.,
vedushchiy red.: GENNAD'YEVA, I.M., tekhn.red.

[Hydrology of the southeastern Caspian Lowland in connection with
oil and gas potentials] Gidrogeologiya iugo-vostoka Prikaspiskoi
vpadiny v sviazi s neftegazonost'iu. Leningrad, Gos.nauchno-tekhn.
izd-vo neft.i gorno-toplivnoi lit-ry. Leningr. otd-nie, 1961. 230 p.
(Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skiy
geologorazvedochnyi institut. Trudy, no.167). (MIRA 14:8)

(Caspian Lowland--Petroleum, Geology)
(Caspian Lowland--Gas, Natural--Geology)

KROTOVA, V.A.

Indications of the presence of vertical movement in the eastern part of the Russian Platform. Trudy VNIGRI no.190:123-130 '62.
(MIRA '16:1)
(Volga-Ural region—Oil field brines)

KROTOVA, Valentina Artem'yevna; SEGAL', Z.G., vedushchiy red.;
SAFRONOVA, I.M., tekhn.red.

[Hydrogeological factors in the formation of oil fields
as exemplified by the cis-Ural region] Gidrogeologicheskie
faktory formirovaniia neftianykh mestoroshdenii (na primere
Predural'ia). Leningrad Gos. nauchno.-tekhn. izd-vo neft.
i gorno-toplivnoi lit-r., Leningr. otd-nie. 1962. 327 p.
(Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii
geologorazvedochnyi institut. Trudy, no.191). (MIRA 15:11)
(Ural Mountain region--Oil field brius)

KROTOVA, V.A., kand. geol.-miner. nauk, otv. red.; KOLOSHINA, T.V.,
red.izd-va; SHMAKOVA, T.M., tekhn. red.

[Materials on the Soviet petroleum geology; works dedicated
to the 90th anniversary of I.M.Gubkin's birth] Materialy po
sovetskoi neftianoi geologii; sbornik statei, posviashchennyi
90-letiiu so dnia rozhdeniya I.M.Gubkina. Moskva, Gosgeol-
tekhizdat, 1963. 216 p. (MIRA 16:6)

1. Leningrad. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy
geologorazvedochnyy institut.
(Petroleum geology)
(Gubkin, Ivan Mikhailovich, 1871-1939)

VYSHEMIRSKIY, V.S.; KROTOVA, V.A.

Particle-size distribution of Bashkiria and Vereya sandstones of
the Volga-Don region. Dokl. AN SSSR 151 no.1:185-188 Jl '63.
(MIRA 16;9)

1. Saratovskiy gosudarstvennyy universitet im. N.G.Chernyshevskogo.
Predstavleno akademikom N.M.Strakhovym.

(Volga Valley—Particle size determination)
(Don Valley—Particle size determination)

AFANAS'YEVA, E.L.; VERBOLOV, V.I.; VOTINTSEV, K.K.; KROTOVA, V.A.;
MAN'KOVSKIY, V.I.; MESHCHERYAKOVA, A.I.; SHIMARAYEV, M.N.

Comprehensive synchronous limnological studies of Baikal waters.
Izv. AN SSSR. Ser. geog. no. 2:120-125 Mr-Ap '64. (MIRA 17:5)

1. Limnologicheskiy institut Sibirskogo otdeleniya AN SSSR.

KRTOVA, V. I.

Cand Med Sci - (diss) "Sarcolysium as an anti-cancer preparation. (Experimental study)." Moscow, 1961. 16 pp; (Academy of Medical Sciences USSR); 250 copies; free; designated as author's name on heading page: V. I. Krotova (Trusheykina); (KL, 10-61 sup, 225)

Russia, USSR

USSR/Cultivated Plants - Fodders.

H.

Abs Jour : Ref Zhur - Biol., № 10, 1953, 44169

Author : K zlevskiy, A., Krotova, Yu., Zhil'tsova, A.

Inst : Siberian Scientific Research Institute for Animal Raising.

Title : Combined Sowings of Corn with Leguminous Cultures.

Orig Pub : S. Kh. Sibiri, 1956, № 3, 27-29.

Abstract : The 1954-1955 experiments of the Siberian Scientific and Research Institute of Animal Husbandry showed that with the combined sowings of corn with leguminous cultures the aggregate crop increased (corn in pure form produced 313 centners/ha of green bulk. Corn plus vetch 343 and corn plus peas 350 centners/ha). The presence of the leguminous plants in the crop increased the protein content to 22-49%. In dry years it is recommended to carry

Card 1/2

Card 2/2

KROTOVICH, A.T.

Some data on oil- and gas-bearing potential of Tertiary deposit
in the Vienna basin. Geol. nefti 1 no. 4:64-70 Ap '57. (MIRA 10:8)
(Central Europe--Petroleum geology)
(Central Europe--Gas, Natural--Geology)

KROTOVICH, A.T.

Basic characteristics of the development of the Vienna Basin in
the Tertiary epoch. Izv. vys. ucheb. zav.; naft' i gaz 2 no.6:
3-9 '59. (MIRA 12:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akad. I.M. Gubkina.
(Vienna Basin--Geology)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

GABRIEL'YAN, A.; KROTOVICH, A.

Results of the symposium held in Lukas. Geol. nefti i gaza 3 no.5:
52-55 My '64. (IMA 17:9)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KROTOVICH, P.P.; CHIKMAREV, K.M.

Wound of the rectum and the urinary bladder penetrating the abdominal cavity. Zdrav. Belor. 6 no. 5:62-63 My '60. (MIRA 13:10)

1. Iz khirurgicheskogo otdeleniya voyennogo gospitalya.
(RECTUM—WOUNDS AND INJURIES) (BLADDER—WOUNDS AND INJURIES)
(ABDOMEN—WOUNDS AND INJURIES)

PETROVSKIY, B. V., professor; KRYLOV, V. S., starshiy nauchnyy sotrudnik;
KROTOVSKIY, G. S. (Moskva, V-330, Universitetskiy pr., korpus 4,
kv. 139)

Surgical treatment of "pulseless disease" (Takayasu's syndrome).
Vest. Khir. no.4:28-35 '62.
(MIRA 15:4)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. B. V.
Petrovskiy) 1-go Moskovskogo ordena Lenina meditsinskogo insti-
tuta im. I. M. Sechenova.

(PULSE)

BELICHENKO, I.A.; KHYLOV, V.S.; KROTOVSKIY, G.S.; ABUCOV, A.M.

Angiography in lesions of the branches of the arch of the aorta. Vest. rent. i rad. 40 no. 5:12-17 S-0 '65.

(MIRA 18:12)

I, Nauchno-issledovatel'skiy institut klinicheskoy i eksperimental'noy khirurgii Ministerstva zdravookhraneniya RSFSR, Moskva.

BELICHENKO, I.A.; KROTOVSKIY, G.S. (Moskva)

Surgical treatment of occlusive lesions of the branches of the arch of
the aorta (pulseless disease, Takayasu's syndrome); a review of litera-
ture. Khirurgia 40 no.11:138-142 N '65. (MIRA 18:7)

KROTOVSKIY, S., kand. tekhn. nauk; VAYSMAN, E., inzh.; GAMALEY, N., inzh.

Study of precast blocks for apartment houses. Zhil. stroy.
no. 6:13-17 '65.

(MIRA 18:10)

KROTOVSKIY, S. S.

"Experimental Investigation of the Rigidity of Eccentrically-Compressed
Members of Reinforced Concrete." Sub 6 Feb 51, Central Sci Res Inst of
Industrial Structures (TsNIPS)

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SC: Thm. No. 400, 9 May 55

KROTOVSKIY, S.S., kandidat tekhnicheskikh nauk

On standardization of large-size reinforced concrete panels for
apartment house floors. Stroi.prom.33 no.6:45-46 Je'55.
(Floors, Concrete) (MIRA 8:10)

KROTOVSKIY, S.S., kandidat tekhnicheskikh nauk.

Determining the supporting capacity of reinforced concrete structures in operation. Stroi.prom. 34 no.2:31-33 F '56. (MLRA 9:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennykh
sooruzheniy. (Structures, Theory of)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

VASIL'YEV, A.P., kand.tekhn.nauk; KROTOVSKIY, S.S., kand.tekhn.nauk.;
CHINENKOV, Yu.V., kand.tekhn.nauk

Joints of stressed elements in prestressed concrete girders
reinforced with wire bundles. Stroi. prom. 36 no.8:22-26 Ag '58.
(MIRA 11:9)
(Girders)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KROTOVSKIY, S.S., kand.tekhn.nauk; KARAMYSHEV, I.A., inzh., nauchnyy
red.; VILKOV, G.N., red.izd-va; STEPANOVA, E.S., tekhn.red.

[Field testing of large precast reinforced concrete construction
elements] Polevye ispytaniia aboraykh krupnorazmernykh zhelezobetonykh konstruktsii. Moskva, Gos.izd-vo lit-ry po stroit.,
arkhit. i stroit.materialam, 1959. 81 p.
(Precast concrete--Testing) (MIRA 13:1)

SOV/97-59-1-3/18

AUTHORS: Krotovskiy, S.S., Candidate of Technical Sciences;
Khar'kin, A.M., Engineer; Zadvin, M.V., Engineer and
Korotkov, P.A., Engineer.

TITLE: Construction of Pre-stressed Reinforced Concrete elements
of a Ramp Serving a Blast Furnace (Opyt izgotovleniya
predvaritel'no napryazhennykh zhelezobetonnykh elementov
bunkernoy estakady domennoy pechi).

PERIODICAL: Beton i Zhelezobeton, 1959, Nr.1, pp.11-15 (USSR)

ABSTRACT: Various basic constructional elements of pre-tensioned
reinforced concrete ramps serving blast furnaces (i.e. beams,
frames carrying ore bunkers, railtrucks, and slabs) are
described. The authors of this project are engineers
Yu.I. Ukhina and A.Ya. Fridkin. Fig.1 shows cross section
of the ramp supported at 4570 mm centres. The main
frame is of 10.38 m span carrying ore bunkers and two
railway trucks with a total loading of 500 t (see Fig.2).
The cross-section of the frame is 440 x 2,300 mm, made
from concrete mark 400 reinforced with 26 batches of high

Card 1/3

SOV/97-59-1-3/18

Construction of Pre-stressed Reinforced Concrete Elements of a Ramp
Serving a Blast Furnace.

tensile reinforcement each containing 18 5 mm wires resisting temporary stresses up to 17,000 kg/cm². Six batches of reinforcement are placed in the top zone and 20 batches in the bottom zone of the beam. Fig.3 illustrates beams carrying railway trucks. Technical advice during the erection of the above construction was given by the ASIA SSSR and Lenpromstroyprojekt. The concreting was carried out on open yards using two tower cranes of 3 t capacity and a bridge crane of 30 t capacity. Curved channels for batch reinforcement were formed by means of rubber tubes of 51 mm diameter. The straight channels were formed by means of steel tubes which during concreting were rotated round their axes every 20 minutes and were pulled out after 2 hours. Fig.4 illustrates the formwork and the reinforcement of the frame. In 1 m³ of concrete the following ingredients were used: 570 kg of cement mark 500; 640 kg of sand; 1,220 kg of coarse aggregate up to 25 mm in size, and 200 l. of water. The water/cement ratio was 0.35.

Card 2/3 The concrete was delivered in tipping bunkers and consolidated

SOV/97-59-1-3/18

Construction of Pre-stressed Reinforced Concrete Elements of a Kamp
Serving a Blast Furnace.

by vibrators I-21, I-50 and I-80. The curing lasted 36 hours at a temperature of 80°C. After that the strength of the concrete was great enough to tension the reinforcement, i.e. 360 kg/cm². Fig.5 illustrates the testing of anchoring by jack. A detailed description of tensioning and anchoring problems is given. The cement grout for filling the channels consisted of 2.5 parts of cement mark 500 and 1 part water. The injecting of the grout was carried out by means of a hand-operated suction pump, and when the channel was completely filled a pressure of 2-3 atm was applied. During production of these precast pre-tensioned units various improvements and modifications were found to be necessary. There are 7 figures.

Card 3/3

KROTOVSKIY, S.S., kand. tekhn. nauk

Testing the rigidity of eccentrically compressed reinforced
concrete construction elements. Trudy NIIZHB no.4:215-275
'59. (MIRA 12:9)
(Reinforced concrete--Testing) (Strains and stresses)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTOVSKIY, S., kand.tekhn.nauk; REZNIK, S., inzh.

Elements of houses made of three-dimensional blocks. Zhil. stroy.
no. 2:12-15 '63. (MIRA 16:3)
(Buildings, Prefabricated) (Building—Details)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

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APPROVED FOR RELEASE: 06/19/2000

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2



Faint sketch
of retaining walls

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

LAZARENKO, A.I.; BELICHENKO, I.A.; KROTOVSKIY, Yu.S.

Ophthalmodynamography in occlusive lesions of carotid arteries.
Zhur. nevr. i psikh. 65 no.12:1798-1803 '65.

(MIRA 19:1)

1. Kafedra nervnykh bolezney (zaveduyushchiy - prof. V.V. Mikheyev)
i kafedra gospital'noy khirurgii (zaveduyushchiy - prof. B.V.
Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta
im. Sechenova. Submitted September 12, 1964.

KROTONSKI, Z.; CUDOLINSKI, K.

electric equipment of oil heaters for crimping filters. p. 3/0.

PRZEWODNIK WŁOKIENNICZY. (Stowarzyszenie Inżynierów i Techników Przemysłu Włókienniczego) Łódź, Poland, Vol. 13, No. 7, July 1-59.

Monthly List of East European Acquisitions (EDAI) 10, Vol. 2, No. 2, Feb. 1959.

Incl.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTCWICZ, Jerzy, mgr.

Radioactive isotopes in measurements of the density and flow
speed of gases. Przegl techn 85 no.44:9 1 N '64

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KROTOWICZ, Jerzy, mgr inz.

Radiometric methods of prospecting for raw material deposits.
Przegl techn 85 no.49:1, 7 6 D '64.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTOWICZ, Jerzy, mgr.

Radioactive isotopes used to evaluate the degree of blending.
Przegl techn 85 no.33r7 16 Ag '64.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KROTOWICZ, Jerzy

Is it possible to utilize the energy of earthquakes? Przegl
techn 85 no.38:3 20 S '64.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTONICZ, Jerzy, mgr

New methods of chemical analysis in industry. Przegl
techn 85 no.39:1, 3 28 3 '64.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTONOWICZ, Jerzy

Ionizing radiation in agriculture. Przegl techn no.36:6 9 S '62.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KROTOWICZ, Jerzy, mgr.

Possibilities of applying radioactive isotopes to the discovery
of misfires of blasting charges in mines. Przegl techn 84 no.38:
3 22 S'63

KROTOWICZ, Jerzy, mgr

Radioactive isotopes\in geophysical research. Przegl techn 84 no.17:
1, 3 28 Ap '63.

KROTOWICZ, Jerzy, mgr

Radiometric methods applied to soil improvement and construction
works. Przegl techn 84 no.13:4 31 Mr '63.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTOWICZ, Jerzy, mgr

Pipeline leakages discovered by radioactive isotopes. Przegl
techn 84 no.30:4, 7 28 Jl '63.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTOWICZ, Jerzy, mgr

Application of radioactive isotopes for tire wear testing. Przegl
techn 85 no.2:1, 3 12 Ja '64.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KROTOWICZ, Jerzy, mgr

Isotopic packing density meters. Przegl techn 86 no.11;2
14 Mr '65.

Electrical Density

The selective gauges as automation component in the chemical industry. Fraegle techn 86 no. 19 3.1.1986.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

It is also important to consider the potential for error and uncertainty in the data.

1. 亂世の政治家としての「義理」、「道徳」。

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTOWICZ, J.

An exhibition of Isotope apparatus of member countries of the
Council for Economic Mutual Assistance. Przegl gl 13 no.2:
87-88 F '65.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTOWICZ, Jerzy

Prospects for the utilization of nuclear energy. Przegl techn
86 no.2:5 10 Ja '65.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

KROTOWICZ, Jerzy, mgr

Nuclear magnetic resonance in engineering. Przegl techn 86 no.22:
5 '65.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KOTULSKI, J.; KUDLIK, S.

A method for the measurement of critical shaft revolutions in industrial conditions. p. 361.

PRZEDMIAST WŁOKIENNICZY. (Stowarzyszenie Inżynierów i Techników Przemysłu Włókienniczego) Łódź, Poland, Vol. 13, No. 7, Jul 1959.

Monthly list of East European Accessions (EEL) EC, Vol. 9, No. 2, Feb. 1959.

Thel.

LINETSKIY, Aleksandr [Linecki, A.]; KROTOVSKIY, Zigmund [Krotowski, Z.];
YEDERAN, Miklosh [Miklos, Jederan]; KORNEV, I.V. [translator]

Research in the field of weaving; from the materials of the 4th
International Conference of Textile Representatives in the
Polish People's Republic. Tekst.prom. 23 no.4:44-51 Ap '63.

(MIRA 16:4)

1. Kafedra tekstil'noy tekhnologii Budapeshtskogo politekhnicheskogo
instituta, Vengerskata Narodnaya Respublika (for Yederan).
2. TSentral'noye tekhnicheskoye byuro promyshlennosti tekstil'nykh
mashin, Pol'skaya Narodnaya Respublika (for Linetskiy, Krotovskiy).
(Looms)

KROTONSKI, Zygmunt

Equipment for automatic control of viscosity in the sizing trough.
Przegl wlokiien 16 no.5:298-301 My '62.

1. Centralne biuro techniczne Przemyslu Maszyn Wlokienniczych, Lodz.

KROTOWSKI, Zygmunt

Analysis of phenomena connected with the sizing and drying process of
cotton warps. Przegl wlokiens 16 no.12:629-632 D '62.

KRÖTSYANOVA, T. L., STRUCHKOV, Yu. T.

"~~6~~1. The Crystal Structure of Diphenyliodonium Fluoroborate."

Inst. of Organo-Element Compounds, Leninsky prospekt 31, Moscow, USSR.

paper submitted for 5th Gen. Assembly, Symposium on Lattice Defects, Intl. Union of Crystallography, Cambridge U.K. Aug 1960.

KROTYUK, L.S.

Lacquers and enamels with a xylitol ester gum base. Gidroliz.i
lesokhim.prom. 10 no.4:14-16 '57. (MIRA 10:7)

1. Tsentral'naya nauchno-eksperimental'naya lesokhimicheskaya
laboratoriya Rospromsovetra.
(Ester gums) (Lacquer and lacquering) (Enamel and enameling)

ACCESSION NR: AP4043440

0/0030/64/006/002/0479/0490

AUTHOR: Krotzsch, M.

TITLE: Low-frequency dispersion of dielectric constants and electrical conductivity of polycrystalline ferrite

SOURCE: Physica status solidi, v. 6, no. 2, 1964, 479-490

TOPIC TAGS: dielectric constant, dielectric constant dispersion, Koops model, electrical conductivity, polycrystalline ferrite

ABSTRACT: In order to study dielectric constant dispersion, C. G. Koop's ferrite model (Phys. Rev. 83, 121, 1951) is extended by assuming a rectangular distribution of relaxation times. The dispersion formulas for the dielectric constant and the electrical conductivity are in good agreement with the experimental results. Measurements at high hydrostatic pressure show that the resistivity of the ferrite crystalline decreases with pressure. It is also shown that the low-frequency limit of the dielectric constant is not dependent on temperature and pressure. This article is part of the author's dissertation published in Leipzig in 1961. "The author thanks Prof. Holzmuller for his help

Card
1/2

ACCESSION NR: AP4043440

in carrying out this work, and Dr. Dietzmann for his valuable advice." Orig.
art. has: 20 formulas, 7 figures, and 2 tables.

ASSOCIATION: Abteilung Technische Physik des Physikalischen Institutes der
Karl-Marx-Universität, Leipzig (Engineering Physics Department, Physics Institute
of Karl Marx University)

SUBMITTED: 25May64

ENCL: 00

SUB CODE: EM, SS

NO REF Sov: 000

OTHER: 018

Card

2/2

KROULIK, A. ; FLAM, F.

Importance of inoculation of sauerkraut. p. 421

PRUMYSL POTRAVIN. (Ministerstvo potravinarskeho prumyslu) Praha,
Czechoslovakia, Vol. 10, no. 8, Aug. 1959

Monthly list of East European Accessions (EEAI), LC. Vol. 9, no. 2,
Feb. 1960

Uncl.

KROULIK, B.

GDR / Cultivated Plants. Medicinal Plants. Essential Oil Plants. Toxic Plants.

Abs Jour : Ref Zhur - Biol., No 3, 1956, No 34362

Authors : Holubek, J.; Kroulik, B.

Inst : Not Given

Title : Distribution of Essential Oils and Citral in *Hepatica cataria* L. var. *Citriodora* Balbis and the Effects of Various Forms of Drying on the Content of These Matters in the Stock (Basic Material).

Orig Pub : Pharmazie, 1957, 12, 41, 52-54.

Abstract : Studies, dealing with the distribution of essential oils (I) and citral (II) in *Hepatica cataria* L. var. *citriodora* Balbis, were carried out in plants gathered during the period of bud opening and full blooming. The richest amounts of I and II were found in the buds and flowers, the

Card 1/2

142

USSR / Cultivated Plants. Medicinal Plants. Essential Oil Plants. Toxic Plants.

Abs Jour : Ref Zhur v. Biol., No 8, 1956, No 34861

culture. Under these conditions, patchouli does not bloom and, therefore, can only propagate itself vegetatively. Out of all the variants produced in the tests, the most favorable appeared to be those grown in strata of sand 6 cm deep from peduncles that have been prepared by a treatment with the heterocukin powder at a temperature of 20 to 25°C. -- Korolev.

Card 2/2

MACH, J.; KROULIK, J.; KOSTELNIK, J.; NADVORNÍK, F.

Pulmonary candidiasis. Vnitřní lek. 11 no.10: 1004-1992
O '65.

1. Vnitřní oddělení nemocnice Červená Voda, Obvodního ústavu
národního zdraví Ústí n. Orl. (prednosti dr. Jan Mach), Plzeň
lečebna Žamberk (reditel dr. František Myšlík), Patologické
anatomické oddělení nemocnice Litomyšl (prednosti dr. Josef
Kostelník) a Mikrobiologické oddělení Okresní hygienicko-
epidemiologické stanice Litomyšl (prednosti prim. lek. Pavel
Nadvořník).

CZECHOSLOVAKIA / Microbiology. Antibiosis and Symbiosis.
Antibiotics.

F-2

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 33784

Author : Kroulik, Kubista

Inst : Not given

Title : Changing Swine Excrement Microflora Under the Influence
of Environmental Conditions.

Orig Pub : Sbor. Ceskosl. akad. zemod. ved. Rostl. výroba, 1955.

Abstract : No abstract.

Card 1/1

CZECH

A polarographic study of the autoproteolytic enzymatic activity of human serum at acid reaction and its changes in serum from patients with pernicious anemia. St. Janousek, J. Krulickova, and Fr. Malli (Fak. obrazovniho strediska UNV, Prague). *Campus Lekar. Ceskoslo. 94*, 83-9 (1955).—Sulfosalicylic cold filtrates of human blood serum previously incubated in an acid medium were studied by means of Brdicka's polarographic reaction in Cu^{++} -contg. buffer. The increase of the polarographic double wave in serum acidified to pH 1.0 was not due to a denaturation but to an enzymic digestion of the serum. No increase of the double-wave was found in the sulfosalicylic filtrate of egg albumin subjected to similar treatment. The serum proteolytic products increased with time of incubation at 27°, forming a slightly convex curve in normal subjects. All 80 patients suffering from pernicious anemia (I) showed lower activity (C=14 mm.) than 67 other out-patients (14-49 mm.). Reactions in the I had no effect on the lowered proteolysis at pH 1.9. Histamine-resistant gastric mucoplasma and some old male subjects gave relatively low values but

well above the range. The pH-activity curves at cold reactions of serum of 1 patients and of healthy individuals were analyzed. Normal serum revealed three peaks of proteolytic activity, between pH 2-3, between 3-4, and between 5-7. The first pH optimum was lacking in serum of I; it was attributed to the presence of plasminogen which was acid-activated. The second optimum was usually higher in I than in the normals and it was due to the activity of a cathepsin type protease which was inactivated on incubation at pH 1.8. The first and second proteolytic systems have already been shown by previous authors using various substrates. The third system, with an optimum at pH 5-7, is maintained in I. It is not inactivated by preliminary adjustment to pH 1.0. It is inferred that it became demonstrable either due to the specificity of the substrate contained in the serum or to the use of the polarographic method. The simple assay described in the paper is suitable for routine clinical testing. Calibration in terms of N released is feasible.

L. M. Hahn

26.2190 (2402)(2322)

41799
S/194/62/000/008/088/100 ..
D413/D308

AUTHOR: Krouman, Ladislav

TITLE: An electrical lock for a telescopic receiver aerial

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 8, 1962, abstract 8-7-130 f (Czech. pat., cl. 21a4
66/05, no. 98147, Jan. 15, 1961)

TEXT: The patent covers a design of electrical lock for the extensible telescopic aerial of a motor-car radio receiver, the aerial being mounted on the bodywork of the car. When the aerial is fully extended by hand, grooves in the aerial rod engage with protective tongues which are the ends of the core of electromagnet 2. The end of the aerial rod is connected to the free contact 3, which in turn makes with the contact 4. The electromagnet cores are compressed by the springs 5, so as to hold the aerial in its working position. The design and operation of the lock are clear from the figure.
[Abstracter's note: Complete translation.]

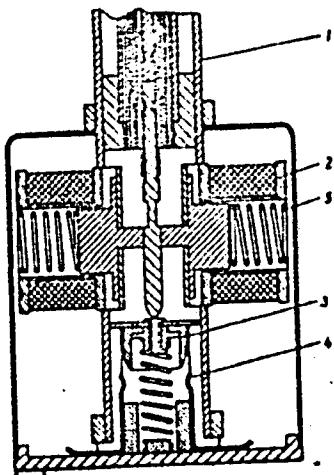
f

Card 1/2

S/194/62/000/008/088/100
D413/D308

An electrical lock for a ...

Fig.



Card 2/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

Kroupa, B.

Refining ores. p. 243. HUTNIK. (Ministerstvo hutniho prumyslu a
rudnych dolu) Praha. Vol. 4, no. 8, Aug. 1954.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

if two pieces
sheeting of a set of equidistant parallel lines ruled on
them be placed in contact and one plane be deformed,
then on looking at them by reflected or transmitted
light a fringe pattern will appear.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KROUFA F.

The second boundary condition of the theory of elasticity for annular regions. p.137
(Czechoslovak Journal Of Physics, Vol. 1, no. 3/4, 1952) Czechoslovakia

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress,
August 1953, Incl.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2"

KROUPA, F.

"J. M. Milbauer's Fotoclasticimetric A. Joji Pouziti V. Praxi (Measurement
of Photoelasticity and Its Practical Use)" P. 106
(CESKOSLOVENSKY CASOPIS PRO FYSIKU Vol. 4, No. 1, Feb. 1954 - Praha, Czech.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4,
April 1955, Uncl.

KRCUPA, F.

"F. M. Hetenyi's Handbook of Experimental Stress Analysis; A Review" P. 107
(CESKOSLOVENSKY CASOPIS PRO FYSIKU - Vol. 4, No. 1, Feb. 1954 - Praha, Czech.)

SO: Monthly List of East European Acquisitions, (EEAL), LC, Vol. 4, No. 4,
April 1955, Uncl.

KROUPA, F.

Kroupa, F. Plane deformation in the nonlinear theory of elasticity. p. 571.
CESKOSLOVENSKY CASOPIS PRO FISIKU. Praha. Vol. 4, no. 5, Oct. 1954.

SO: Monthly List of East European Assemblies, (REAL), 13, Vol. 5, No. 11,
Nov. 1955, Uncl.

AKROVIT, V.

✓ 2264. Kroupa, F., Plane deformation in the non-linear theory of elasticity (in English). Czechoslovak J. Phys. 5, 1, 18-29, 1955.

Paper deals with problem already solved in somewhat greater generality for the Mooney nonlinear elastic solid by R. S. Rivlin, Phil. Trans. Roy. Soc. (A) 242, 173 (see sections 10-13), 1949. The two solutions appear to be in agreement. The problem is that of a long hollow rubber cylinder bonded on both surfaces to rigid tubes which are rotated by different amounts. This has relevance to a torsion damper. R. Hill, England

5.

1144. Kroupa, F., The mixed boundary-value problem of the plane theory of elasticity for an annular region (in Czech), Czech. J. Phys. 6, 2, 124-139, Apr. 1956.

A general solution of the mixed boundary-value problem of the classical plane theory of elasticity for an annular region is given in the following formulation: on one circle the components of displacement are given, on the other circle the normal and tangential component of stress is given. The Muskhelishvili method of the complex stress function is used. The general solution is carried out in the second section by expanding known functions expressing the boundary conditions in Fourier series, by expanding the wanted complex stress functions $\varphi(z)$ and $\psi(z)$ in Laurent series and logarithmic terms and by determining the coefficients in these series. The convergence of the series for φ and ψ is only proved for the case when the functions expressing the boundary conditions have a continuous third differential coefficient.

From this general solution two special cases are calculated, when the inner circle is stiff and a radial or tangential concentrated force acts on the outer circle. The concentrated force is at the same time newly conceived as the N -th approximation of the

expansion of the Dirac function in a Fourier series. A substitute continuously distributed load is chosen which for larger N corresponds well to reality, the given solution being exact for this substitute load.

Another solution of the same problems is given where it is assumed that the concentrated force acts at one point. This solution

RB

1/2

Kroupy, F.

is obtained by the superposition of the solution for a half-plane loaded on the boundary by a point force and the solution of the mixed boundary-value problem for an annular region with suitably constructed continuous boundary conditions. By comparing both solutions their equivalence inside the annular region is shown.

Both special cases dealt with, and their possible superposition, are destined for the study of a loaded full tire. The solid inner circle corresponds to the contact of the rubber body with the metal disk, the concentrated force to the contact of the outer circle with the roadway. In transferring the results to this problem it is of course necessary to critically appraise the assumptions used. The approximity of the calculation consists both in the use of the classical linear theory of the elasticity of small deformations and in the assumption that the problem concerned is plane.

RB
2/2

From author's summary

3
2

adpo

Czechoslovakia/Solid State Physics - Phase Transformations in Solids, E-5

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34706

Author: Kroupa, Frantisek

Institution: None

Title: Etching Figures on Silicon Steels

Original Periodical: Ceskosl casop. fys., 1955, 5, No 5, 57⁴; Czech

Abstract: None

/ of /

- 1 -

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710005-2

* FOR A RING-SHAPED BODY IN THE TWO-DIMENSIONAL

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710005-2"

Kroupa, F.

Mixed boundary problem of the plane theory of elasticity for an inscribed circle. P. 147
CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved.
Ustav technicke fysiky) Praha
Vol. 6, no. 2, Mar. 1956

Source: EEAL - LC Vol. 5. No. 10, Oct. 1956

Kroupa, F.
CZECHOSLOVAKIA/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 10, 1958, No 23859

Author : Kroupa F., Jehlicka B.
Inst : Czechoslovak Academy of Sciences, Prague, Czechoslovakia
Title : Investigation of the Surface Quality with the Aid of Multiple Interference.

Orig Pub : Jezna mechan. a opt., 1957, 2, No 5, 131-136

Abstract : Certain results are given of the theory of multiple interference. A simple device is described for the measurement of the microrelief of a surface with the aid of multiple interference, which is adapted for a metallographic microscope. The instrument makes it possible to measure the heights of surface irregularities from 0.005 to 1 micron with an accuracy of 0.005 microns.

Card : 1/1

CIA-RDP86-00513R000826710005-2
CZECHOSLOVAKIA/Optics - Optical Technology
APPROVED FOR RELEASE: 06/19/2000

K-4

Abs Jour : Ref Zhur - Fizika, No 8, 1958, No 18940

Author : Kroupa F., Jehlicka B.
Inst : Not Given
Title : Investigation of Surfaces with the Aid of Multiple Interference

Orig Pub : Jezna mechan., a opt., 1957, 2, No 6, 165-168

Abstract : Description of a setup for obtaining multiple interference and different cases of its application for the investigation of surfaces. The construction makes it possible to change readily the distances and the directions of the interference fringes. The advantages of coating the surfaces with silver is demonstrated.

Card : 1/1

KROUPA, F.

The effect of radiation on the properties of metals.

p. 7, (Pokroky Fysiky Pevnych Latek.) Vol 4 1957. Praha, Czechoslovakia.

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7 no 1 Jan 1958

KROUPA, GERCHIK

E-1

CZECHOSLOVAKIA/Virology - Bacterial Viruses.

Abs Jour: Ref. Zhur-Biol., No 7, 1958, 28698

Author : Kroupa, Gerchik.

Inst : Not given.

Title : Evaluation of Cohesive Forces Between Macromolecules in
Formation of Bacteriophages.

Orig Pub: Otsenka sil stsepleniya mezhdu makromolekulami pri
obrazovanii bakteriofaga. Ceskosl. biol., 1957, 6, No 4,
241-249.

Abstract: The cohesive force was studied on a model composed of
elastic small balls easily deformed upon slight exter-
nal pressure, and possessing electrostatic reciprocal
force. The dipolar moment and cohesive force were
determined by the magnitude of deformation. The lar-
ger dimension of the polar moment was close to the same
dimension in macro-molecules containing amino acids.

Card : 1/2

APPROVED FOR RELEASE: 06/19/2000
CZECHOSLOVAKIA/Virology - Bacterial Viruses

CIA-RDP86-00513R000826710005-2

Abs Jour: Ref. Zhur.-Biol., No 7, 1958, 28698

In the authors' opinion, the data obtained confirm the
hypothesis of the role of electrostatic intermolecular
forces in formation of bacteriophages.

Card : 2/2

Kroupa, Frantisek
 CZECHOSLOVAKIA/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3583.

Author : Frantisek Kroupa.

Inst :
 Title : Dipole Forces Among Macromolecules.

Orig Pub: Ceskosl. casop. fys., 1957, 7, No 3, 314-315.

Abstract: An estimation of the dipole moment p , the binding energy and the interaction force among macromolecules was carried out basing on on Herčík's experimental data (Herčík, Problém bakteriofága, Nakla ČSAV, Praha, 1953) and using the methods of the elasticity theory. Should the molecules be considered as point charges, the p would be equal to about 660 D and the binding energy would be 0.05ev. Should the molecule be considered as a sphere of finite dimensions, p would be equal to 340 D.

-47-

Card : 1/1

KROUPA, FRANTISEK

CZECHOSLOVAKIA/Solid State Physics - General

E-1

APPROVED FOR RELEASE: 06/19/2000
 Abs Jour : Ref Zhur - Fizika, No 7, 1958, No 1977 RDP86-00513R000826710005-2

Author : Kroupa Frantisek

Inst : Not Given

Title : Study of the Mechanical Properties of Solids in the USSR

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 3, 318-319

Abstract : No abstract

Card : 1/1

KROUPA, FRANTISEK

CZECHOSLOVAKIA/Atomic and Molecular Physics - Physics of the Molecule

D-2

K-5

CZECHOSLOVAKIA/Optics - Physical Optics

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6736

Author : Kroupa Frantisek

Inst :
Title : Conditions of Maximum Contrast of Multiple Interference in
Reflection

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 5, 600-601

Abstract : No abstract

Card : 1/1

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710005-2

Abs Jour : Ref Zhur - Fizika, No 1, 1957

Author : Kroupa Frantisek

Inst : Czechoslovak Academy of Sciences, Institute of Physics,
Prague, CzechoslovakiaTitle : Maximum Contrast Condition by Multiple-Bounce Interference
in Reflection

Orig Pub : Chokhovl. fiz. zh., 1957, 7, No 5, 631-632

Abstract : Brief preliminary communication of a theoretical determination of the relation of the intensity in the maxima and minima of the interference bands, obtained in reflected light in an air wedge, formed between a surface S_1 of an interference plate and a surface S_2 of a reflecting body. It is supposed that the coefficients of reflection R_1 and R_2 of these surfaces are different. It is shown that the bands have a maximum contrast when $\sqrt{R_1/R_2} = R_1 + T_1 (-1 - \alpha_1)$, where T_1 and α_1 are the coefficients of transmission and absorption of the surface S_1 . Thus, by suitable choice the coefficients

Card : 1/2

CZECHOSLOVAKI./Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 1, 1959, No 1937

$R_1 < R_2$ it is possible to compensate for the unfavorable effect of the absorption of the surface S_1 on the contrast of the interference bands.

I. Dukhepal

Card : 2/2

71

KROUPA, F.

The effect of radiation on the properties of metals.

p. 7, (Meteorologicke Zpravy) Vol 10 no 3 June 1957. Praha, Czechoslovakia.

SO: Monthly Index of East European Accessions (MEEAI) LC, vol. 7, no 1 Jan 1958